

THAT WHICH IS CLAIMED:

1. An improved golf ball comprising:
a hollow metal sphere and an outer cover surrounding
the hollow sphere.

2. A golf ball according to claim 1 further
comprising a second layer disposed between the sphere
and the outer cover.

3. A golf ball according to claim 2 wherein
the second layer has a thickness of about 0.05 to 0.65
inches.

4. A golf ball according to claim 1
wherein the metal is selected from the group consisting
of titanium, titanium alloys, stainless steel,
5 stainless steel alloys, nickel, nickel alloys,
aluminum, aluminum alloys, molybdenum, molybdenum
alloys, tungsten, tungsten alloys, carbon steel, and
iron.

5. A golf ball of claim 1 wherein the
hollow sphere has an outer diameter of about 0.39
inches to 1.5 inches.

6. A golf ball according to claim 1 wherein the hollow sphere has a wall thickness of about 0.02 inches to 0.08 inches.

7. A golf ball according to claim 1 wherein the hollow sphere has a wall thickness of about 0.02 to 0.25 inches.

8. A golf ball according to claim 1 wherein the sphere is porous or perforated.

9. A golf ball according to claim 1 wherein the metal has a hardness of greater than 40 on the Brinnell hardness scale.

10. A golf ball according to claim 1 wherein the metal has a specific gravity of about 4 to 11.

11. A golf ball according to claim 1 wherein the metal has a specific gravity of about 2.5 to 20.

12. A golf ball according to claim 1 wherein the hollow sphere contains a material having a density

less than the density of the outer layer.

13. A golf ball according to claim 12 wherein the material is a gas.

14. A golf ball according to claim 1 wherein the sphere contains a solid or liquid material.

15. An improved golf ball comprising: a hollow, hard plastic sphere and an outer cover surrounding the sphere wherein the hollow sphere is filled at least substantially with a gas.

16. A golf ball according to claim 15 wherein the plastic sphere has a hardness of greater than 60 on the Shore D hardness scale.

17. A golf ball according to claim 15 wherein the plastic sphere contains a material having a density less than the density of the outer cover.

18. A golf ball according to claim 15 wherein the hard plastic sphere is made of polypropylene.

19. A golf ball according to claim 15 wherein the plastic sphere has an outer diameter of about 0.39 to 1.5 inches.

20. A golf ball according to claim 15 wherein the plastic sphere has a thickness of about 0.05 to 0.5 inches.